

7.0 List of Preparers and Contributors

This section lists the individuals who played primary roles in the preparation of this final environmental impact statement (EIS) under the direction of the U.S. Department of Energy (DOE). The DOE multidisciplinary EIS Preparation Team was led by Michael Collins, DOE Richland Operations Office (RL), Waste Management Division, and Paul Dunigan, DOE-RL National Environmental Policy Act Compliance Officer. The EIS Preparation Team was responsible for developing the analytical methodology and alternatives, coordinating the work tasks, performing the impact analyses, and producing the document. DOE was responsible for data quality; procedural adequacy; the scope and content of the EIS; issue resolution; comment response resolution; review, revision, and writing of text and comment responses; and directing the EIS Preparation Team.

Pacific Northwest National Laboratory (PNNL) personnel provided primary assistance to DOE with assistance from other organizational staff. Wayne Johnson and Kathleen Rhoads, both of PNNL (managed by Battelle Memorial Institute for DOE), provided overall project management and document preparation support. Staff from Fluor Hanford Co., Inc.; Duratek Federal Services of Hanford; Duratek Federal Services, Northwest Operations; Jacobs Engineering Group Inc.; and CH2M Hill Hanford Group, Inc. provided technical support and operational data. Staff of EPA Region 10 and Washington State Department of Ecology reviewed portions of the revised draft HSW EIS. DOE independently evaluated all data and supporting information provided by these organizations. Further, DOE retained the responsibility for determining the appropriateness and adequacy of incorporating any data, analysis, and results of other work performed by these organizations in the EIS. The EIS Preparation Team was responsible for integrating such work into the EIS.

Document Manager, U.S. Department of Energy, Richland Operations Office

Name: MICHAEL S. COLLINS

Affiliation: U.S. Department of Energy

Education: B.S., Chemical Engineering, Washington State University, 1986

Technical Experience: Project management, facility management (17 years)

EIS Responsibility: Document Manager, Reviewer/Contributor

Document Support, U.S. Department of Energy, Office of River Protection

Name: GAE M. NEATH

Affiliation: U.S. Department of Energy

Education: B.S., Civil Engineering, University of Washington, 1988

Technical Experience: Project management, environmental management (15 years)

EIS Responsibility: Reviewer/Contributor

DOE Reviewers and Contributors

DOE was responsible for policy, procedural adequacy, scope, format, and content of this EIS; issue resolution; and directing the EIS preparation assistance contractors. DOE independently evaluated data and supporting documentation for this EIS, selected the alternatives (including the preferred alternative), determined the level and methods of impact evaluation, performed detailed reviews, considered comments consideration and responses, and provided revised text where necessary.

Name: BENJAMIN F. BURTON

Affiliation: U.S. Department of Energy, Richland Operations Office

Education: M.S., Mechanical Engineering, Washington State University, 1983
B.S., Mechanical Engineering, University of Washington, 1976

Technical Experience: Project management, facility management/engineering operations, NEPA, environmental compliance (35 years)

EIS Responsibility: Reviewer/Contributor – first draft

Name: **ROBERT M. CAROSINO**

Affiliation: U.S. Department of Energy, Richland Operations Office

Education: J.D., University of Washington School of Law, 1974
B.A., Business Administration, University of Washington, 1971

Technical Experience: Environmental, contract and energy law (29 years)

EIS Responsibility: Reviewer/Contributor – revised draft and final; regulatory and policy issues; comment response

Name: **STEVEN E. CHALK**

Affiliation: U.S. Department of Energy, Richland Operations Office

Education: B.S., Marine Engineering, California Maritime Academy, 1972

Technical Experience: Regulatory compliance, safety analysis, environmental law, engineering management, nuclear facility operations (30 years)

EIS Responsibility: Reviewer/Contributor – revised draft

Name: **DOUGLAS H. CHAPIN**

Affiliation: U.S. Department of Energy, Richland Operations Office

Education: B.S., Biology, Whitworth College, 1975

Technical Experience: Environmental regulatory compliance, project management, NEPA (26 years)

EIS Responsibility: Reviewer/Contributor – first draft

Name: SUZANNE S. CLARK

Affiliation: U.S. Department of Energy, Richland Operations Office

Education: M.S., Physical Chemistry/Physiology and Biophysics, University of Washington, 1962
B.S., Chemistry, University of Washington, 1958

Technical Experience: Project engineer, program, and facility management, NEPA (41 years)

EIS Responsibility: Reviewer/Contributor

Name: DENNIS W. CLAUSSEN

Affiliation: U.S. Department of Energy, Richland Operations Office

Education: B.S., Civil Engineering, University of Illinois, 1981

Technical Experience: Nuclear engineering, waste management, traffic (21 years)

EIS Responsibility: Reviewer/Contributor – transportation

Name: ERIC B. COHEN, P.E.

Affiliation: Office of NEPA Policy and Compliance, DOE-HQ

Education: M.S., Environmental Science in Civil Engineering, University of Illinois, 1979
B.A., Chemistry and Biology, Western Maryland College, 1977

Technical Experience: NEPA, environmental restoration and compliance, wastewater engineering (24 years)

EIS Responsibility: Reviewer/Contributor

Name: PAUL F. X. DUNIGAN, JR.
Affiliation: U.S. Department of Energy, Richland Operations Office
Education: M.S., Environmental Science, Washington State University, 1973
B.S., Biology, Gonzaga University, 1970
Technical Experience: NEPA, environmental compliance, waste management (32 years)
EIS Responsibility: NEPA Compliance Officer; Reviewer/Contributor

Name: THOMAS W. FERNS
Affiliation: U.S. Department of Energy, Richland Operations Office
Education: M.S., Land Rehabilitation, Montana State University, 1985
B.S., General Studies, Southern Oregon State College, 1980
B.S., Biology, Southern Oregon State College, 1980
Technical Experience: CERCLA, NEPA, natural resources management (23 years)
EIS Responsibility: Reviewer/Contributor

Name: WAYNE M. GLINES
Affiliation: U.S. Department of Energy, Richland Operations Office
Education: M.S., Radiological Sciences, University of Washington, 1983
B.S., Physics, University of New Hampshire, 1971
Technical Experience: Radiological program management and assessment, technical advisor
(24 years)
EIS Responsibility: Reviewer/Contributor – radiological assessment

Name: **RUDOLPH F. GUERCIA**

Affiliation: U.S. Department of Energy, Richland Operations Office

Education: B.S., Civil Engineering, Georgia Institute of Technology, 1981

Technical Experience: Registered P. E. (Virginia), waste management, nuclear documentation, project management (23 years)

EIS Responsibility: Reviewer/Contributor – waste inventory

Name: **R. LEO GUILLEN**

Affiliation: U.S. Department of Energy, Richland Operations Office

Education: B.S., Mechanical Engineering, University of Texas El Paso, 1976
B.S., Sciences, Math, University of Texas El Paso, 1974

Technical Experience: Project design and development engineering, project management (29 years)

EIS Responsibility: HSW EIS project control support; Reviewer/Contributor – revised draft and final

Name: **R. DOUGLAS HILDEBRAND**

Affiliation: U.S. Department of Energy, Richland Operations Office

Education: B.S., Geology, Utah State University, 1974

Technical Experience: Geology, hydrogeology, mineral exploration, NEPA, environmental compliance, groundwater surveillance, performance assessments and composite analysis (26 years)

EIS Responsibility: Reviewer/Contributor – groundwater and cumulative impacts

Name: EDWARD V. HISKES

Affiliation: U.S. Department of Energy, Richland Operations Office

Education: L.L.M., Intellectual Property, University of Illinois, 1984
J.D., University of Puget Sound, 1977
B.S., Electrical Engineering, Washington State University, 1998
B.A., Chemistry, University of Washington, 1984
B.A., Political Science, University of Illinois, 1974

Technical Experience: Environmental and patent law, NEPA (20 years)

EIS Responsibility: Reviewer/Contributor – legal issues, comment response

Name: BETTY L. HOLLOWELL

Affiliation: U.S. Department of Energy, Richland Operations Office

Education: J.D., St. Mary's University School of Law, 1980
B.A., Political Science, University of South Florida, 1976

Technical Experience: DOE attorney (23 years)

EIS Responsibility: Reviewer/Contributor

Name: MARY F. JARVIS

Affiliation: U.S. Department of Energy, Richland Operations Office

Education: Ph.D., Environmental Sciences, University of Texas, School of Public Health, 1982
M.S., Environmental Engineering, University of Texas at Austin, 1975
B.A., Microbiology, University of Texas at Austin, 1973

Technical Experience: Environmental sciences (30 years)

EIS Responsibility: Reviewer/Contributor – air and water, revised draft and final

Name: PHILIP E. LAMONT
Affiliation: U.S. Department of Energy, Office of River Protection
Education: M.S., Chemical Engineering, University of Idaho, 1975
B.S., Chemical Engineering, Washington State University, 1965
Technical Experience: Nuclear chemical process development, radioactive waste management technology development, Hanford tank waste storage/disposal program (33 years)
EIS Responsibility: Reviewer/Contributor – tank wastes, ILAW

Name: ASTRID P. LARSEN
Affiliation: U.S. Department of Energy, Richland Operations Office
Education: B.S., Civil Engineering, Texas A&M University, 1985
Technical Experience: Environmental regulatory permitting and oversight (12 years)
EIS Responsibility: Reviewer/Contributor – air, first draft

Name: EDWARD J. LeDUC
Affiliation: Office of General Counsel, DOE-HQ
Education: J.D., University of Detroit, 1983
B.S., Industrial and Operations Engineering, University of Michigan, 1980
Technical Experience: Environmental compliance (12 years)
EIS Responsibility: Reviewer/Contributor

Name: **MARY M. McKNIGHT**

Affiliation: U.S. Department of Energy, Richland Operations Office

Education: J.D., Creighton University School of Law, 1989
B.A., Communications, University of Nebraska, 1982

Technical Experience: Environmental law, litigation, appropriations, labor law and procurement (13 years)

EIS Responsibility: Reviewer/Contributor – first draft

Name: **MARLA K. MARVIN**

Affiliation: U.S. Department of Energy, Richland Operations Office

Education: J.D., Washington College of Law, 1991
B.A., Political Science and Psychology, Pacific Lutheran University, 1983

Technical Experience: Communications, writing, editing (17 years)

EIS Responsibility: Reviewer/Contributor; Author – summary

Name: **ANNABELLE L. RODRIGUEZ**

Affiliation: U.S. Department of Energy, Richland Operations Office

Education: B.S., Biology, University of Albuquerque, 1982

Technical Experience: Environmental analysis and permitting, NEPA, environmental justice, cultural and historical resources (15 years)

EIS Responsibility: Reviewer/Contributor – cultural and historical resources

Name: HECTOR M. RODRIGUEZ
Affiliation: U.S. Department of Energy, Richland Operations Office
Education: B.S., Geology, St. Mary's University, San Antonio, Texas, 1990
Technical Experience: Environmental assessment and analysis (20 years)
EIS Responsibility: Reviewer/Contributor

Name: DANA C. WARD
Affiliation: U.S. Department of Energy, Richland Operations Office
Education: B.A., Geoenvironmental Studies, University of Shippensburg, 1975
Technical Experience: Geo-archaeology, radiation safety, environmental surveillance, NEPA (29 years)
EIS Responsibility: Reviewer/Contributor

Name: DEBRA J. WILCOX
Affiliation: U.S. Department of Energy, Richland Operations Office
Education: J.D., Gonzaga University School of Law, 1984
B.A., Political Science, University of Illinois-Chicago, 1977
Technical Experience: Environmental law, environmental compliance, NEPA (19 years)
EIS Responsibility: Reviewer/Contributor – revised draft and final; regulatory and policy issues; comment response

Document Preparation Assistance Contractors

Name: CYNTHIA W. ABRAMS

Affiliation: Pacific Northwest National Laboratory

Education: B.A., Environmental Studies and Biology, University of California, Santa Cruz, 1980

Technical Experience: Ecological systems management, ecological risk assessment, CERCLA policy analysis, public involvement, and NEPA document preparation (16 years)

EIS Responsibility: Coordination of public comment database; comment response support

Name: JODI P. AMAYA

Affiliation: Pacific Northwest National Laboratory

Education: B.A., Business Administration, Washington State University, 1995

Technical Experience: Business management, analysis, and strategic planning; competitive intelligence; communications/public involvement (8 years)

EIS Responsibility: Coordination of public involvement activities; comment response support

Name: ERNEST J. ANTONIO

Affiliation: Pacific Northwest National Laboratory

Education: M.S., Environmental Health Physics, Colorado State University, 1992
B.S., Biology, New Mexico Highlands University, 1988

Technical Experience: Environmental monitoring, environmental health physics, and dose assessment (12 years)

EIS Responsibility: Section 5, Deputy Task Manager, Environmental Consequences of Accidents; comment response support

Name: JAMES M. BECKER

Affiliation: Pacific Northwest National Laboratory

Education: M.S., Wildlife Science, University of Washington, 1989
B.S., Range and Wildlife Ecology, Brigham Young University, 1987

Technical Experience: Ecological assessment, written and field documentation for NEPA analyses (9 years)

EIS Responsibility: Section 5, Ecological Resources; comment response support

Name: MARCEL P. BERGERON

Affiliation: Pacific Northwest National Laboratory

Education: M.A., Geology, Indiana University, 1979
B.A., Geology, University of Vermont, 1975

Technical Experience: Hydrologic studies at a variety of hazardous waste and contaminated ground water sites (22 years)

EIS Responsibility: Section 5, Water Quality; comment response support

Name: JOE DWAYNE CRUMPLER

Affiliation: Jacobs Engineering Group Inc.

Education: M.S., Geology, Baylor University, 1989
B.S., Geology, Lamar University, 1985

Technical Experience: RCRA corrective action, CERCLA remedial actions, water resources, geologic and mineral resources (15 years)

EIS Responsibility: Section 5, Water Resources

Name: PHILIP M. DALING
Affiliation: Pacific Northwest National Laboratory
Education: B.S., Physical Metallurgy, Washington State University, 1981
Technical Experience: Risk assessments for energy materials transportation systems, including preparation of transportation impact analyses for a wide variety of NEPA documents (20 years)
EIS Responsibility: Section 5, Transportation; comment response support

Name: THOMAS J. DeFOREST
Affiliation: Pacific Northwest National Laboratory
Education: B.S., Chemical Engineering, University of North Dakota, 1992
Technical Experience: Solid waste management system planning, forecasting, modeling, and alternatives analysis (10 years)
EIS Responsibility: Section 3, Description and Comparison of Alternatives; comment response support

Name: JOANNE P. DUNCAN
Affiliation: Pacific Northwest National Laboratory
Education: B.A., Biology, Hood College, Frederick, MD, 1979
Technical Experience: Ecological research, NEPA document preparation (7 years)
EIS Responsibility: Section 4, Affected Environment; comment response support

Name: PAUL W. ESLINGER

Affiliation: Pacific Northwest National Laboratory

Education: Ph.D., Statistics, Southern Methodist University, 1983
M.A., Mathematics, Washington State University, 1978
B.S., Mathematics, George Fox College, 1976

Technical Experience: Risk assessment, mathematical modeling (24 years)

EIS Responsibility: Section 5.14, Human Risk for Cumulative Impacts

Name: R. DOUGLAS EVANS

Affiliation: Jacobs Engineering Group Inc.

Education: M.S., Geology, University of Idaho, 1989
B.S., Geology, University of Illinois, 1980

Technical Experience: Risk assessor, geologic and water resources, and field investigations (14 years)

EIS Responsibility: Section 5, Water Resources, Anticipated Health Effects

Name: A. LYNN FRANKLIN

Affiliation: Pacific Northwest National Laboratory

Education: Ph.D., Cognitive Psychology, University of Washington, 1995
M.S., Electrical Engineering, Washington State University, 1980
B.S., Electrical Engineering, University of Idaho, 1974

Technical Experience: Decision Sciences, Regulatory Analysis (10 years)

EIS Responsibility: Comment response support

Name: CLIFFORD S. GLANTZ

Affiliation: Pacific Northwest National Laboratory

Education: M.S., Atmospheric Sciences, University of Washington, 1982
B.S., Physics and Atmospheric Sciences, State University of New York,
Albany, 1979

Technical Experience: Research in environmental risk assessment and risk management, air
pollution meteorology, and multipathway pollutant transport modeling
(21 years)

EIS Responsibility: Section 5.2, Air Quality; comment response support

Name: PAUL E. GRAY

Affiliation: Pacific Northwest National Laboratory

Education: M.S., Environmental Science and Regional Planning, Washington State
University Tri-Cities, Degree In Progress
B.A., Political Science and Philosophy, University of New Hampshire, 1992

Technical Experience: Toxicology, database management, laboratory analysis (5 years)

EIS Responsibility: Database management, comment response support

Name: NOLAN S. HALE

Affiliation: Jacobs Engineering Group Inc.

Education: M.S., Chemistry, Brigham Young University, 1981

Technical Experience: Analytical chemistry laboratory and RCRA compliance (20 years)

EIS Responsibility: Section 5, Cumulative Impacts; Appendix A, Waste Inventory Data

Name: MICHAEL R. HARKER

Affiliation: Jacobs Engineering Group Inc.

Education: B.S., Zoology, Brigham Young University, 1989

Technical Experience: Risk assessment and health and safety analyst (20 years)

EIS Responsibility: Section 5, Geology and Soils, Air Quality, Transportation, Anticipated Health Effects, Accidents; Appendix C, Public Scoping; Appendix D, Consultations

Name: DAVID W. HARVEY

Affiliation: Pacific Northwest National Laboratory

Education: Post-graduate work, Urban Design & Planning, and Environmental Law, University of Washington, 1991-1993
M.A., History and Historic Preservation, Western Washington University, 1975
B.A., American Government and History, Fairleigh Dickinson University, 1970

Technical Experience: History, Historic Preservation, Cultural Resource Management and Planning (28 years)

EIS Responsibility: Section 5, Land Use and Cultural Resources Impacts; comment response support

Name: PAUL L. HENDRICKSON

Affiliation: Pacific Northwest National Laboratory

Education: J.D., Law, University of Washington, 1971
M.S., Industrial Management, Purdue University, 1972
B.S., Chemical Engineering, University of Washington, 1968

Technical Experience: Energy and environmental studies emphasizing regulatory issues (30 years)

EIS Responsibility: Section 6, Regulatory Framework; comment response support

Name: SUSAN T. HOLDERNESS

Affiliation: Jacobs Engineering Group Inc.

Education: Ph.D., Educational Administration, University of New Mexico, 1990
M.S., Education, University of Southern California, 1972
A.B., Political Science, Mount Holyoke College, 1969

Technical Experience: Regulatory specialist and public education (25 years)

EIS Responsibility: Section 5, Socioeconomics, Cumulative Impacts; Section 6, Statutory and Regulatory Requirements; Section 7, Scoping, Public Participation, and Consultations

Name: LEONARD R. HUESTIES

Affiliation: Pacific Northwest National Laboratory

Education: A.A., Columbia Basin College, 1991

Technical Experience: Resource management and public relations (26 years)

EIS Responsibility: Administrative record and resource library

Name: TRACY A. IKENBERRY

Affiliation: Dade Moeller & Associates, Inc.

Education: M.S., Radiation Health Science, Colorado State University, 1982
B.S., Biology, McPherson College, 1979

Technical Experience: Radiological assessment, operational and environmental health physics (20 years). Diplomate, American Board of Health Physics

EIS Responsibility: Section 5, Environmental Consequences of Accidents; comment response support

Name: JOHN A. JAKSCH

Affiliation: Pacific Northwest National Laboratory

Education: Ph.D., Natural Resource Economics, Oregon State University, 1972
M.S., Natural Resource Economics, Oregon State University, 1969
B.S., Accounting and Business Administration, Southern Oregon College, 1966

Technical Experience: Cost/benefit analysis, evaluation of public policy, economic/financial incentives for environmental improvements (29 years)

EIS Responsibility: Section 5, Environmental Justice and Aesthetic Resources; comment response support

Name: WAYNE L. JOHNSON, P.E.

Affiliation: Pacific Northwest National Laboratory

Education: M.S., Engineering Management, Washington State University, 1995
B.S., Nuclear Engineering, Oregon State University, 1983

Technical Experience: Project management, strategic planning, nuclear engineering, environmental restoration, waste management, nuclear facility D&D, and radiological controls (20 years). Professional Engineer, Nuclear.

EIS Responsibility: Project Manager, technical oversight

Name: CHARLES T. KINCAID

Affiliation: Pacific Northwest National Laboratory

Education: Ph.D., Engineering Utah State University, 1979
B.S., Civil Engineering, Humboldt State College, 1970

Technical Experience: Fluid Movement and contaminant transport in subsurface systems including vadose zone and groundwater environments, preparation and review of performance assessments and a composite analysis for waste disposal at DOE sites under DOE Orders 5820.2A and 435.1, contributions to NEPA documents in the topical areas of vadose zone and groundwater contaminant transport.

EIS Responsibility: Appendix L, Simulation of Sidewide Contaminant Sources

Name: GEORGE V. LAST

Affiliation: Pacific Northwest National Laboratory

Education: M.S., Environmental Science, Washington State University, 1997
B.S., Geology, Washington State University, 1976

Technical Experience: Geology, hydrology, hazardous waste site remedial investigations and feasibility studies (25 years)

EIS Responsibility: Vadose Zone section of the Systems Assessment Capability (SAC) appendix

Name: MEGAN E. LERCHEN

Affiliation: Pacific Northwest National Laboratory

Education: M.S., Inorganic Chemistry, University of Washington, 1989
B.S., Chemistry, Portland State University, 1986

Technical Experience: Project management, waste management, environmental compliance, tank waste chemistry (13 years)

EIS Responsibility: Comment response support

Name: ANN M. LESPERANCE

Affiliation: Pacific Northwest National Laboratory

Education: M.S., Public Health, University of California at Los Angeles [UCLA], 1992
B.A., Environmental Science and Latin American Studies, University of Wisconsin, Madison, 1980

Technical Experience: Project management, public/stakeholder involvement, public health, ecosystem management and policy (13 years)

EIS Responsibility: Regulator interface

Name: CHARLES A. LOPRESTI

Affiliation: Pacific Northwest National Laboratory

Education: M.S., Public Health (Industrial Hygiene), Tulane University, 1998
B.S., Physics, University of Texas at Arlington, 1969

Technical Experience: Statistical computing, modeling (22 years)

EIS Responsibility: SAC Software Development Team, Vadose Zone Release Module

Name: NATESAN MAHASENAN

Affiliation: Pacific Northwest National Laboratory

Education: M.S., Engineering & Public Policy, Carnegie Mellon University, 1997
M.S., Mechanical Engineering, Tulane University, 1994
B.S., Mechanical Engineering, Birla Institute of Technology and Science (India), 1992

Technical Experience: Risk Assessment, Uncertainty Analysis, Quantitative Policy Analysis (6 years)

EIS Responsibility: Section 5, Transportation

Name: **STEPHEN E. MCKEE**

Affiliation: Jacobs Engineering Group Inc.

Education: B.S., Civil Engineering, Cornell University, 1995

Technical Experience: Variety of civil engineering projects (5 years)

EIS Responsibility: Section 3, Description and Comparison of Alternatives; Section 4, Affected Environment; Section 5, Biological and Ecological Resources, Cultural Resources, Land Use, Visual Resources, and Noise

Name: **THOMAS J. MCLAUGHLIN**

Affiliation: Pacific Northwest National Laboratory

Education: M.S., Public Health/Environmental Engineering, University of Hawaii, 1974
B.S., Microbiology and Public Health, Washington State University, 1970

Technical Experience: Environmental Engineering, Mixed Waste Management, Regulations, NEPA (29 years)

EIS Responsibility: Data development interface

Name: **PETER L. MILLER**

Affiliation: Pacific Northwest National Laboratory

Education: B.S., Chemical Engineering, University of Illinois at Urbana, 1983

Technical Experience: Environmental regulation and project management (19 years). Licensed P.E., State of Washington.

EIS Responsibility: Comment response support

Name: DONALD G. MONTGOMERY

Affiliation: Jacobs Engineering Group Inc.

Education: B.S., Civil Engineering Construction Management, Oregon State University, 1975

Technical Experience: Estimator and construction manager for environmental remediation and operational and maintenance projects (30 years)

EIS Responsibility: Section 3, Description and Comparison of Alternatives; Section 5, Geology and Soils, Biological and Ecological Resources, Land Use, and Transportation

Name: NADIA HOPE MOORE

Affiliation: Pacific Northwest National Laboratory

Education: B.S., Chemistry, Pacific Lutheran University, 1992

Technical Experience: Toxicology (11 years)

EIS Responsibility: Section 5.0, Receipt of Public Comments, Comment Response Support

Name: DUANE A. NEITZEL

Affiliation: Pacific Northwest National Laboratory

Education: M.A., Biological Sciences, Washington State University, 1981
B.S., Zoology, University of Washington, 1968

Technical Experience: Aquatic sciences with emphasis on salmonid fisheries of the Columbia River Basin, Pacific Northwest, U.S.A., and other western states. Emphasis on energy generation impacts to aquatic systems (31 years).

EIS Responsibility: Section 4, Affected Environment – lead and contributor to aquatic environment; comment response support

Name: IRAL C. NELSON

Affiliation: Pacific Northwest National Laboratory

Education: M.A., Physics, University of Oregon, 1955
B.S., Mathematics, University of Oregon, 1951

Technical Experience: Various aspects of health physics (46 years), NEPA document preparation and review (31 years). Diplomate, American Board of Health Physics.

EIS Responsibility: Technical lead for Section 5, Environmental Consequences; comment response support

Name: DAVID L. NICHOLS

Affiliation: Jacobs Engineering Group Inc.

Education: B.S., Political Science and Communications, University of Iowa, 1980

Technical Experience: Public involvement tasks for DOE, EPA, DOD, and industry (air, water, and wetlands) projects (18 years)

EIS Responsibility: Section 1, Introduction; Section 2, Purpose and Need for Action

Name: WILLIAM E. NICHOLS

Affiliation: Pacific Northwest National Laboratory

Education: M.S., Civil Engineering, Oregon State University, 1990
B.S., Agricultural Engineering, Oregon State University, 1987

Technical Experience: Hydrologist (13 years)

EIS Responsibility: Section 5, Cumulative Impacts Assessment

Name: LEILONI PAGE
Affiliation: Jacobs Engineering Group Inc.
Education: B.S., English, University of Idaho, 1992
Technical Experience: Technical writer/editor and document production coordinator (12 years)
EIS Responsibility: Editorial and production team lead for Jacobs Engineering Group Inc.

Name: DAVID R. PAYSON
Affiliation: Pacific Northwest National Laboratory
Education: B.A., Journalism, Central Washington University, 1978
Technical Experience: Technical writing and editing (25 years)
EIS Responsibility: Editorial and production team lead

Name: TED M. POSTON
Affiliation: Pacific Northwest National Laboratory
Education: M.S., Fisheries, University of Washington, 1978
B.A., Biology, Central Washington University, 1973
Technical Experience: Research, environmental assessment, and noise analysis (29 years)
EIS Responsibility: Section 5, Noise Analysis; comment response support

Name: **KATHLEEN RHOADS**

Affiliation: Pacific Northwest National Laboratory

Education: M.S., Radiological Sciences, University of Washington, 1979
B.S., Microbiology, University of Washington, 1972

Technical Experience: Radiological health and safety, waste management, environmental health physics, and risk assessment (29 years). Diplomate, American Board of Health Physics.

EIS Responsibility: Document Manager, technical oversight; comment response support

Name: **WAYNE A. ROSS**

Affiliation: Pacific Northwest National Laboratory

Education: M.S., Mechanical Engineering, Stanford University, 1969
B.S., Ceramic Engineering, University of Utah, 1968

Technical Experience: Radioactive waste management (28 years)

EIS Responsibility: Section 2, Waste Streams and Facilities; Section 3, Alternatives; comment response support

Name: **MICHAEL J. SCOTT**

Affiliation: Pacific Northwest National Laboratory

Education: Ph.D., Economics, University of Washington, 1975
M.A., Economics, University of Washington, 1971
B.A., Economics, Washington State University, 1970

Technical Experience: Socioeconomic impacts of major projects and social policies (26 years)

EIS Responsibility: Section 5, Socioeconomics and Environmental Justice; comment response support

Name: **DILLARD B. SHIPLER**

Affiliation: Pacific Northwest National Laboratory

Education: M.S., Physics, University of Wisconsin, Milwaukee, 1967
B.S., Math & Science, Southern Oregon College, Ashland, 1957

Technical Experience: Planning and executing research and development, operations, and support services programs related to regulatory compliance, radiological protection, environmental impact assessment, safety and risk analysis, emergency management, and radioactive waste management (41 years). Diplomat, American Board of Health Physics.

EIS Responsibility: Comment Response Document lead

Name: **SANDRA F. SNYDER**

Affiliation: Pacific Northwest National Laboratory

Education: M.S.P.H., Radiological Hygiene, University of North Carolina-Chapel Hill, 1991
B.S., Environmental Resource Management, Pennsylvania State University, 1986

Technical Experience: Environmental health physics and risk assessment (11 years). Air quality analysis (6 years).

EIS Responsibility: Section 5, Air Quality; comment response support

Name: **LISSA H. STAVEN**

Affiliation: Pacific Northwest National Laboratory

Education: M.S., Health Physics, Colorado State University, 1990
B.S., Environmental Conservation, University of New Hampshire, 1984

Technical Experience: Environmental health physics and low-level waste disposal management practices (12 years)

EIS Responsibility: Section 5, Database Management

Name: **ROBERT D. STENNER**

Affiliation: Pacific Northwest National Laboratory

Education: Ph.D., Toxicology, Washington State University, 1996
M.S., Nuclear Engineering, Idaho State University, 1981
B.S., Mechanics, University of Wisconsin (Stout Campus), 1970

Technical Experience: Toxicology, environmental health, exposure and health risk assessment (28 years)

EIS Responsibility: Section 5, comment response support

Name: **DENNIS L. STRENGE**

Affiliation: Pacific Northwest National Laboratory

Education: M.S., Chemical Engineering, University of Minnesota, 1968
B.S., Chemical Engineering, University of Washington, 1966

Technical Experience: Environmental health physics and risk assessment (34 years)

EIS Responsibility: Section 5, Health and Safety; comment response support

Name: **LUCINDA L. SWARTZ**

Affiliation: Battelle Memorial Institute

Education: J.D., The Washington College of Law, The American University, 1979
B.A., Political Science and Administrative Studies, University of California at Riverside, 1976

Technical Experience: Environmental law and regulation, NEPA compliance (24 years)

EIS Responsibility: Document summary; document reviews

Document Production Support

- Lila Andor, Senior Communications Assistant
- Donna Austin-Workman, Graphics & Multimedia Design Specialist
- Jean Cheyney, Senior Communications Assistant Lead
- Cary Counts, Technical Editor
- Christopher DeGraaf, Graphics & Multimedia Design Specialist
- Jo Lynn Draper, Technical Editor
- Susan Ennor, Technical Editor
- Sharon Johnson, Technical Editor
- Anita Lebold, Publications Design Manager
- Kristin Manke, Document Index Specialist
- Shannon Neely, Graphics & Multimedia Design Specialist
- Kathy Neiderhiser, Senior Communications Assistant
- Zontziry Pritchett, Communications Specialist
- Trina Russell, Senior Communications
- Shanna Schmidt, Project Administrator
- Elaine Schneider, Senior Communications Assistant
- Rosalind Schrempf, Technical Editor
- Debora Schulz, Communications Specialist
- Antoinette Slavich, Technical Database Support
- Joanne Stover, Technical Editor
- Rose Urbina, Communications Assistant
- Barbara Wilson, Senior Communications Assistant
- Colleen Winters, Technical Editor

Hanford Technical Library

- Nancy Doran, Assistant Director – Knowledge Management and Information Services
- Karen Buxton, Library Information Specialist
- Chrissie Noonan, Electronic Library Specialist
- Terrie Pettibon, Legal Library Specialist
- Janice Parthree, Senior Library Assistant

NEPA DISCLOSURE STATEMENT FOR PREPARATION OF THE
HANFORD SITE SOLID (RADIOACTIVE AND HAZARDOUS)
WASTE PROGRAM
ENVIRONMENTAL IMPACT STATEMENT

CEQ Regulations at 40 CFR 1506.5(c), which have been adopted by the DOE (10 CFR 1021), require contractor who will prepare an EIS to execute a disclosure specifying that they have no financial or other interest in the outcome of the project. The term "financial or other interest in the outcome of the project" for purposes of this disclosure, is defined in the March 23, 1981, guidance "Forty Most Asked Questions Concerning CEQ's National Environmental Policy Act Regulations," 46 FR 18026-18038 at Questions 71a and b.

"Financial or other interest in the outcome of the project" includes "any financial benefit such as a promise of future construction or design work in the project, as well as indirect benefits the contractor is aware of (e.g., if the project would aid proposals sponsored by the firm's other clients)" 46 FR 18026-18038 at 18031.

In accordance with these requirements, Battelle Memorial Institute, Pacific Northwest Division hereby certifies as follows: check either (a) or (b).

- (a) Battelle Memorial Institute, Pacific Northwest Division has no financial or other interest in the outcome of the referenced EIS projects.
- (b) _____ has the following financial or other interest in the outcome of the referenced EIS projects hereby agree to divest themselves of such interest prior to the start of the work.

Financial or Other Interest

- 1.
- 2.
- 3.

Certified by:

Nori Nichols
Signature

Nori Nichols
Name

Contracting Officer
Title

April 9, 2002
Date

NEPA DISCLOSURE STATEMENT FOR PREPARATION OF THE
HANFORD SITE SOLID (RADIOACTIVE AND HAZARDOUS)
WASTE PROGRAM
ENVIRONMENTAL IMPACT STATEMENT

CEQ Regulations at 40 CFR 1506.5(c), which have been adopted by the DOE (10 CFR 1021), require contractor who will prepare an EIS to execute a disclosure specifying that they have no financial or other interest in the outcome of the project. The term "financial or other interest in the outcome of the project" for purposes of this disclosure, is defined in the March 23, 1981, guidance "Forty Most Asked Questions Concerning CEQ's National Environmental Policy Act Regulations," 46 FR 18026-18038 at Questions 71a and b.

"Financial or other interest in the outcome of the project" includes "any financial benefit such as a promise of future construction or design work in the project, as well as indirect benefits the contractor is aware of (e.g., if the project would aid proposals sponsored by the firm's other clients)" 46 FR 18026-18038 at 18031.

In accordance with these requirements, Jacobs Engineering Group Inc. hereby certifies as follows: check either (a) or (b).

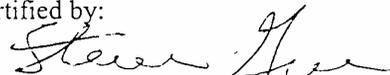
(a) Jacobs Engineering Group Inc. has no financial or other interest in the outcome of the reference EIS projects.

(b) _____ has the following financial or other interest in the outcome of the referenced EIS projects hereby agree to divest themselves of such interest prior to the start of the work.

Financial or Other Interest

- 1.
- 2.
- 3.

Certified by:



Signature

Steven Green

Name

Office Manager

Title

Date

2/18/2003

NEPA DISCLOSURE STATEMENT FOR PREPARATION OF THE
HANFORD SITE SOLID (RADIOACTIVE AND HAZARDOUS)
WASTE PROGRAM
ENVIRONMENTAL IMPACT STATEMENT

CEQ Regulations at 40 CFR 1506.5 (c), which have been adopted by the DOE (10 CFR 1021), require contractor who will prepare an EIS to execute a disclosure specifying that they have no financial or other interest in the outcome of the project. The term "financial or other interest in the outcome of the project" for purposes of this disclosure, is defined in the March 23, 1981, guidance "Forty Most Asked Questions Concerning CEQ's National Environmental Policy Act Regulations," 46 FR 18026-18038 at Questions 71a and b.

"Financial or other interest in the outcome of the project" includes "any financial benefit such as a promise of future construction or design work in the project, as well as indirect benefits the contractor is aware of (e.g., if the project would aid proposals sponsored by the firm's other clients)" 46 FR 18026-18038 at 18031.

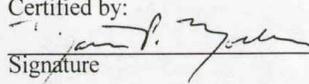
In accordance with these requirements, Dade Moeller & Associates, Inc. hereby certifies as follows: check either (a) or (b).

- (a) Dade Moeller & Associates, Inc. has no financial or other interest in the outcome of the referenced EIS projects.
- (b) _____ has the following financial or other interest in the outcome of the referenced EIS projects hereby agree to divest themselves of such interest prior to the start of the work.

Financial or Other Interest

- 1.
- 2.
- 3.

Certified by:


Signature

Matthew P. Moeller

Name

President & Chief Operating Officer

Title

March 25, 2003

Date

Consultations and Coordinations

To ensure full compliance with National Environmental Policy Act (NEPA) of 1969 (42 USC 4321) regulations and to help keep concerned Tribal Nations and agencies informed of DOE actions, DOE conducted various consultations and coordinations as listed below. These interactions consisted of written correspondence regarding the proposed action, alternatives, environmental impacts, regulatory requirements, and issues of concern. Copies of formal consultation letters and responses are included in Appendixes I and K of this EIS (Volume II).

- Confederated Tribes and Bands of the Yakama Nation
- Confederate Tribes of the Colville Reservation
- Confederated Tribes of the Umatilla Indian Reservation
- Hanford Communities (intergovernmental group for Benton and Franklin counties, Richland, Kennewick, Pasco, West Richland, and the Port of Benton)
- Hanford Advisory Board
- Hanford Natural Resources Trustee Council
- National Marine Fisheries Service
- Nez Perce Tribe
- Oregon Office of Energy
- U.S. Environmental Protection Agency, Region 10
- U.S. Fish and Wildlife Service
- Wanapum
- Washington State Department of Ecology
- Washington State Department of Health
- Washington State Office of Archaeology and Historic Preservation

Cooperating Agencies

The early planning for the proposed ILAW SEIS included scope pertaining to the Waste Treatment Plant (WTP) construction. At that time, the Hanford Communities requested to become a cooperating agency (Attachment 1) with a primary interest in the socioeconomic impacts. In response, DOE welcomed the Hanford Communities as a cooperating agency (Attachment 2). The Hanford Communities commissioned Perteet Engineering, a company based in Everett, Washington to perform a socioeconomic study. Later DOE decided to limit the scope of the SEIS to ILAW disposal. When DOE subsequently decided to combine the SEIS with the HSW EIS, DOE asked the Hanford Communities if they wished to continue to participate as a cooperating agency (Attachment 3). No response was received.

In addition, DOE asked Ecology to participate as a cooperating agency in the proposed ILAW SEIS (Attachment 4). Ecology declined the offer (Attachment 5).

Soon after the Notice of Intent was issued, the Yakama Nation indicated that they wanted to be involved in the preparation of the HSW EIS (Attachment 6). DOE accepted the Yakama Nation's offer (Attachment 7). DOE subsequently requested clarification of the Yakama role (Attachment 8). For a time, a representative of the Yakama Nation staff participated in the preparation of the first draft of the HSW EIS. However, the Yakama Nation later decided that they no longer wished to participate (Attachment 9).